



Offer catalogue

Custom cables & wires

SORIMEX

Trusted Polish Manufacturer of ECG Electrodes and Custom Cables

With over 35 years of experience, SORIMEX is a Polish company specializing in high-quality disposable ECG electrodes, custom cables, and accessories.

- In-house production in the EU**
Full control over quality and delivery times
- Certified quality (ISO 13485, CE, MDR)**
Consistent safety and regulatory compliance
- Export experience**
Active in 50+ international markets
- Modern R&D and production center**
Advanced technology and innovation
- OEM/Private label capabilities**
Flexible cooperation with global partners
- Eco-responsibility**
Green energy use and certified environmental practices



We empower professionals and care for patients

- Effective participation and success in tenders worldwide
- No corporate bureaucracy
- Short lead times & low MOQ
- 100% availability of popular ECG electrode models
- Reasonable prices thanks to investments in technology

Made in the EU. Trusted Worldwide

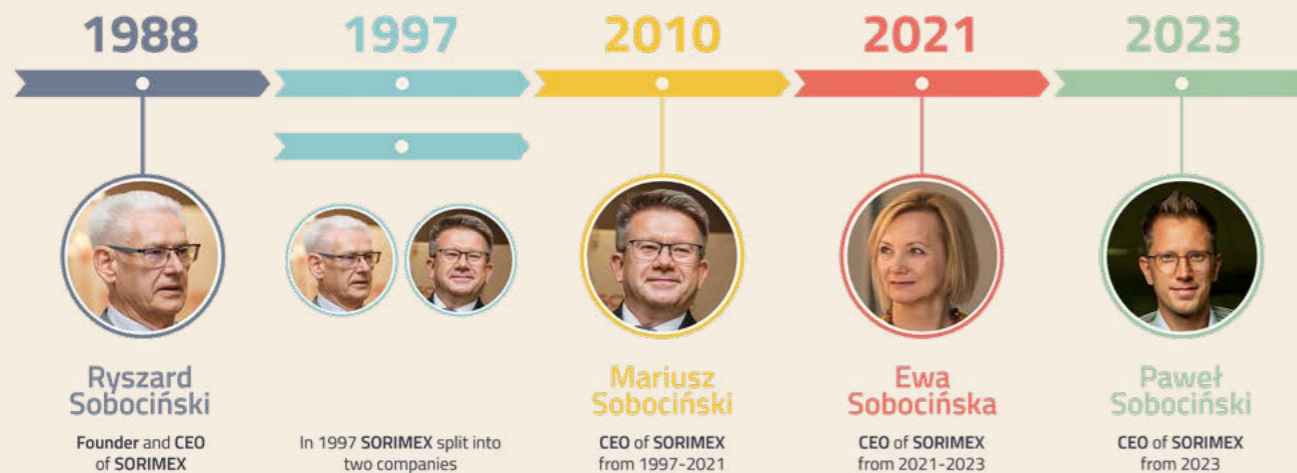
Our mission

As experts and partners, we deliver safe, high-quality solutions and medical products that support the protection of human health and life.

Paweł Sobociński
CEO of SORIMEX

Family Heritage

Founded in 1988, SORIMEX is a family-owned company based in Toruń, Poland. Its name combines the names of its founders, Ryszard and Mariusz Sobociński, reflecting a legacy of continuity and shared vision. Today, the company is led by the founder's grandson, Paweł Sobociński, continuing the tradition of trusted family leadership.



SORIMEX exports medical products to over 50 countries worldwide - from Germany, France, and Italy to Peru, Thailand, Egypt, Vietnam, Israel, Ukraine, and the Gulf countries.

Our products are present in both public healthcare systems and private clinics and distribution networks.

We understand the realities of international cooperation and provide support at every stage - from documentation to logistics.

35 Years of Eco-Friendly Medical Production

We proudly hold a Green Certificate, confirming that 100% of our electricity is sourced from renewable energy, including solar and wind.




Custom Cables & Wires - Engineered for Precision and Reliability


We provide **comprehensive OEM cable solutions**, combining decades of experience with flexibility to meet specific customer needs - even for the most demanding and unique use cases.


While our catalogue showcase broad capabilities in custom cable production, **medical applications remain our core specialty** - particularly ECG cables for diagnostics, monitoring, and Holter tests.

As a reliable partner, we **provide technical consulting, tailored solutions, and fast project implementation**, supporting clients at every stage - from concept to delivery.


 **Signal accuracy**
Reliable signal transmission for precise measurements


 **Robust design**
High-quality, flexible materials tailored to your devices


 **Additional components**
Resistors, suppressors - enhanced performance and safety


 **Seamless integration**
Compatibility with a wide range of devices and components


From Concept to Product - Your custom solution roadmap

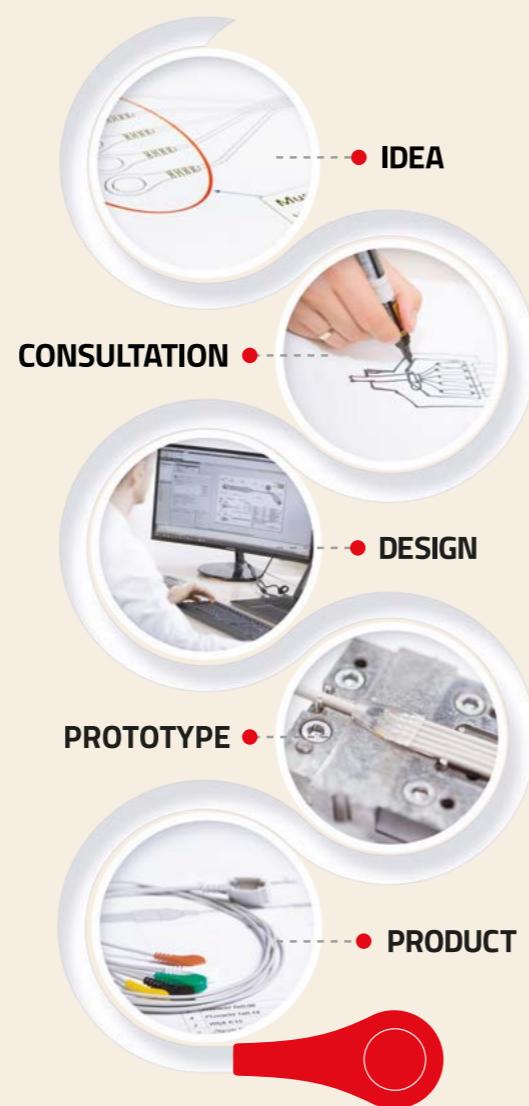
 **Idea**
From initial sketches to technical requirements - we transform your concept into a clear plan

 **Consultation**
We define your needs and verify feasibility to create tailored solutions


 **Design**
We use advanced tools and materials meeting REACH and RoHS standards

 **Prototype**
Functional prototypes are developed to test and validate your concept

 **Product**
We start full-scale production with proven technologies and deliver high-quality, compliant solutions




Built for Engineers - Advanced Production Tailored to Your Needs

 **Cable Unwinding & Cutting**
We use advanced **Komax Kappa machines** to unwind and cut copper and fiber optic cables with exceptional accuracy and repeatability. Our system is optimized for performance, flexibility, and production efficiency.


- ✓ **Consistent cutting quality** - Precise control of length and insulation removal
- ✓ **Quick-change feeding systems** - Fast switching between cable types and diameters
- ✓ **Seamless integration** - Ready for direct connection to downstream processes



 **Cable Stripping**
We use Komax Kappa nad Schleuniger machines for precise, programmable cable stripping - even in complex, multi-layer constructions.

- ✓ **Selective insulation removal** - Protects conductor integrity even in complex cable designs
- ✓ **Wide compatibility** - Supports various cable sizes and structures, including multi-layer and specialty cables
- ✓ **Sequential stripping** - Multi-stage process without retooling or changing tools, increasing efficiency



 **Crimping of Ferrules and Pins**
We use **automated Mecal heads** and **manual stations** to ensure reliable mechanical and electrical contact. Our solutions accommodate various **brass, copper, tinned and custom strips** for ferrules and pins.

- ✓ **Flexible setup options** - Automatic and semi-automatic stations, plus manual tools for short runs and prototyping
- ✓ **Material versatility** - Suitable for multiple contact types and crimp standards across industries
- ✓ **Consistent performance** - Controlled crimp force and repeatability ensure quality in every batch

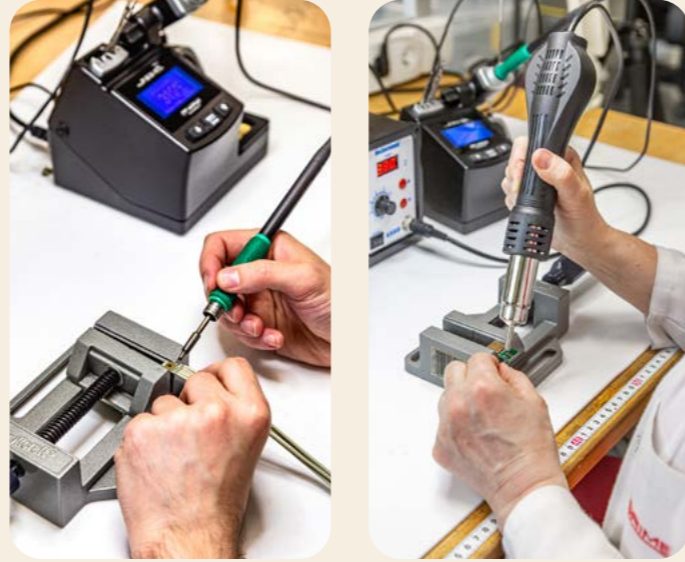


Soldering & Assembly

We operate **12 dedicated soldering workstations** equipped with modern stations for:

- ✓ **Traditional**
- ✓ **Hot-air**
- ✓ **and SMD soldering** (Surface Mount Devices)

Each method is selected based on component type, customer specifications and target application. We solder **copper (stranded)** and **aramid-reinforced (Kevlar) wires**, ensuring long-term mechanical durability and reliable conductivity.



All soldering materials comply with **RoHS** and **REACH directives**, ensuring environmental responsibility and safe product integration. Soldering is a key part of our manual and semi-automated cable assembly process — for both prototypes and full production runs.

Cable Marking & Product Customization

Make your product stand out with **durable cable marking** from diameters as small as **1.9 mm**, using abrasion- and chemical-resistant printing technologies.

We also offer a wide range of customization options:

- ✓ **Direct marking:** serial numbers, logos, technical symbols
- ✓ **Labels, tags, and color-coded markers** – tailored to your identification system
- ✓ **Mold inserts with customer logos** – for overmolded parts, based on your 2D/3D design



Injection Mold Design & Implementation

We design and produce custom molds for overmolded connectors, cable joints, and housings - from prototype to full-scale production.

- ✓ **Tailor-made molds** - designed to fit specific cable or component geometry
- ✓ **Production flexibility** - from rapid prototyping to high-volume runs
- ✓ **Reliable repeatability** - consistent quality across all batches



Materials We Use

We carefully select materials to meet electrical, mechanical, and environmental requirements. Our flexible approach allows customization of conductor type, insulation, shielding, and fillers — ensuring optimal performance and durability.

Cables & Conductors

- ✓ **Copper conductors** - stranded and fine-wire types, suitable for signal and power transmission
- ✓ **Kevlar-reinforced cables** - for enhanced tensile strength and durability
- ✓ **Fiber optics** - for high-speed data transmission over long distances
- ✓ **Custom cable construction** - tailored conductor type, diameter, insulation, and shielding



Pins & Terminals

- ✓ **Wide range of crimped and gold-plated pins** - available in various types for different applications
- ✓ Support for standard terminations and high-cycle mating connectors
- ✓ **Reliable sourcing** - thanks to our broad supplier network offering diverse pin technologies



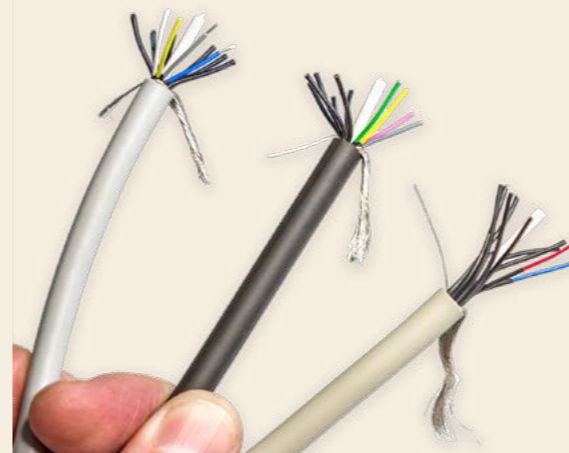
Overmolding Plastics

- ✓ **High-grade plastics (ISO 10993-5 / -10)**
- ✓ **Self-extinguishing materials (UL 94 V0)**
- ✓ Tailored hardness, thermal resistance, impact strength, and color
- ✓ Option for **two-stage overmolding** — ideal for durability or branding



Printed Circuit Boards (PCBs)

- ✓ Custom PCB design for connector and plug applications - compliant with **IPC-A-610 Class 2 standards**
- ✓ **Reliable mass production** - ensuring high repeatability and reliable process control



R&D Support - Your Partner from Idea to Implementation

Our in-house R&D team supports you at every stage of product development - from concept to production.

We help turn your ideas into reliable, manufacturable solutions through co-development, rapid prototyping, and tailored design support.

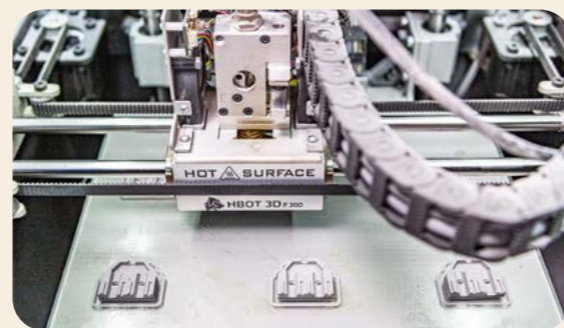
Custom Cable Design

We offer full custom cable design services, including the selection of conductors, insulation, shielding, and outer jackets, as well as the integration of connectors, ferrules and housings.



3D Modeling, Prototyping & Tooling

We combine 3D modeling, in-house printing, and mold design to accelerate product development - from visualizations to ready-to-test components.



- ✓ Fast design validation with 3D simulations
- ✓ In-house 3D printing (FDM, SLA/DLP) for housings, strain reliefs, inserts
- ✓ Small-batch prototyping for testing and user feedback
- ✓ Precise tooling and mold development
- ✓ PCB design compliant with IPC-A-610 Class 2
- ✓ DFM support for seamless connector integration

In-House Tooling Support

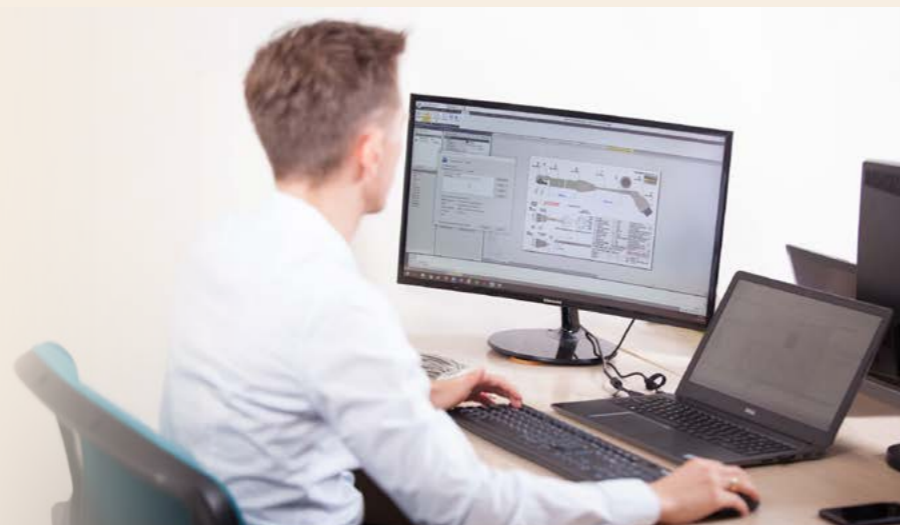
Our in-house tooling workshop enables fast turnaround for custom assembly fixtures, test adapters and small-scale molds.

We support fast-track prototyping, functional test jigs, special crimping tools and custom termination components tailored to unique cable projects.

Design Transfer & Pilot Production

We ensure a smooth transition from prototype to repeatable production — with validated tooling, consistent quality, and controlled documentation.

- ✓ Final design optimization for manufacturability and scalability
- ✓ Controlled pilot runs to verify repeatability and identify improvements
- ✓ Full documentation set for production release (BoM, drawings, test protocols)
- ✓ Integrated quality checks to ensure compliance from first batch onward



Quality Control & Testing Methods

We perform multi-stage quality checks from raw materials to final product, using dedicated test tools and client-specific protocols to ensure compliance and detect electrical, mechanical, and visual defects.

Metrology Lab

We carry out mechanical and electrical strength testing to validate cable performance under real-use conditions.

- ✓ Tensile tests compliant with ANSI/AAMI EC53, using Shimadzu equipment
- ✓ Durability verification under mechanical stress
- ✓ Strain relief testing for long-term bending and pull resistance



In-Process Testing & Multi-Stage Inspection

We ensure product reliability and compliance through integrated testing at key production stages - from molding to final assembly.

- ✓ 15 dedicated test stations for plug/socket connection and electrical contact verification
- ✓ Low-voltage resistance and high-voltage insulation (hi-pot) testing
- ✓ Microscopic inspection to detect flash, voids, or material inconsistencies
- ✓ Full traceability with custom or customer-defined protocols
- ✓ Detailed documentation and process control for OEM and regulated industries



Environmental & Climatic Testing

We verify cable performance under extreme conditions using advanced temperature and humidity testing setups.

- ✓ Climatic chambers for thermal cycling and moisture exposure
- ✓ Heating units (up to 70 °C) and cold test cabinets for accelerated aging and resistance testing
- ✓ Long-term stability simulations reflecting real-world environments



Custom Cable Manufacturing for Industrial & Medical Application

At SORIMEX, cable production is at the core of what we do. We design and manufacture customized cable solutions for a wide range of industries, including:

- ✓ **Industrial automation** – robust, tailored cable systems for sensors, actuators, and control units
- ✓ **Measurement and test equipment** – high-precision cables for signal transmission in laboratory and field environments
- ✓ **Electronics and consumer products** – fine wire harnesses and assemblies for handhelds, wearables, and devices
- ✓ **Telecommunications and audio** – shielded signal cables for clear transmission and electromagnetic protection
- ✓ **Automotive and mobility** – durable, vibration-resistant cables for power and signal systems in vehicles

We are also a trusted manufacturer in the medical sector, with proven expertise in diagnostic accessories. Our product portfolio includes:

- ✓ **Disposable ECG electrodes** – high-adhesion, single-use electrodes for resting ECG, Holter monitoring, and patient surveillance
- ✓ **Medical cables** – custom-made ECG cables and leadwires, including solutions for Holter systems, stress tests, and continuous monitoring
- ✓ **Connectorized and one-piece systems** – both separable and integrated cable designs
- ✓ **Leadwire assemblies** – multi-lead systems built to client-specific configurations and standards



Looking for a trusted partner in diagnostics?

Explore our full product range at www.sorimex.eu or contact us to request a full catalogue.

Contact us!



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